## 1. (Cancelled)

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2. (Amended) A method for forming an ONO stack of a floating gate transistor with a first layer of silicon dioxide formed on the floating gate and a layer of silicon nitride formed on the first silicon dioxide layer, comprising:

forming a second silicon dioxide layer by thermally depositing an oxide layer on the silicon nitride layer; and

annealing the ONO stack;

wherein the annealing is performed in a batch furnace at temperature range of 800 to 1150 deg Celsius for 300 seconds to 1800 seconds.

- 3. The method of Claim 2, wherein the annealing is performed in the batch furnace with a gas mixture of 5% to 100% of NO, with argon as a carrier gas.
- 4. The method of Claim 2, wherein the annealing is performed in the batch furnace with the gas mixture of 5% to 100% of NO with nitrogen as a carrier gas.
- 5. The method of Claim 2, wherein the annealing of is performed in the batch furnace with the gas mixture of 5% to 100% of NO with oxygen as a carrier gas.
- 6. The method of Claim 2, wherein the annealing is performed in the batch furnace with the gas mixture of 5% to 100% of NO with argon, nitrogen and oxygen as carrier gases.
- 7. The method of Claim 2, wherein the annealing is performed in the batch furnace with the gax mixture of 5% to 100% of N<sub>2</sub>O with nitrogen as a carrier gas.
- 8. The method of Claim 2, wherein the annealing is performed in the batch furnace with the gas mixture of 5% to 100% of  $N_2O$  with oxygen as a carrier gas.

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- 9. (Amended) The method of Claim 2, wherein the annealing of the ONO stack is performed in the batch furnace with the gas mixture of 5% to 100% of  $N_2O$  with argon as a carrier gas.
- 10. (Amended) The method of Claim 2, wherein the annealing of the ONO stack is performed in the batch furnace with the gas mixture of 5% to 100% of  $N_2O$  with argon, nitrogen and oxygen as a carrier gas.
- 11. (Amended) A method for forming an ONO stack of a floating gate transistor with a first layer of silicon dioxide formed on the floating gate and a layer of silicon nitride formed on the first silicon dioxide layer, comprising:

forming a second silicon dioxide layer by thermally depositing an oxide layer on the silicon nitride layer; and

annealing the ONO stack;

wherein the annealing is performed in a single wafer Rapid Thermal Annealing tool at a temperature range of 700 to 1100 deg Celsius for one second to 120 seconds.

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12. The method of Claim 11, wherein the annealing is performed in a single wafer Rapid Thermal Annealing tool with a gas mixture of 1% to 100% of NO, with argon as a carrier gas.

- 13. The method of Claim 11, wherein the annealing is performed in a single wafer Rapid Thermal Annealing tool with a gas mixture of 1% to 100% of NO, with nitrogen as a carrier gas.
- 14. The method of Claim 11, wherein the annealing is performed in a single wafer Rapid Thermal Annealing tool with a gas mixture of 1% to 100% of NO, with oxygen as a carrier gas.
- 15. The method of Claim 11, wherein the annealing is performed in a single wafer Rapid Thermal Annealing tool with a gas mixture of 1% to 100% of NO, with carrier gases argon, nitrogen and oxygen.
- 16. The method of Claim 11, wherein the annealing is performed in a single wafer Rapid Thermal Annealing tool with a gas mixture of 1% to 100% of N<sub>2</sub>O, with nitrogen as a carrier gas.
- 17. The method of Claim 11, wherein the annealing is performed in a single wafer Rapid Thermal Annealing tool with a gas mixture of 1% to 100% of N<sub>2</sub>O, with oxygen as a carrier gas.
- 18. The method of Claim 11, wherein the annealing is performed in a single wafer Rapid Thermal Annealing tool with a gas mixture of 1% to 100% of N<sub>2</sub>O, with argon as a carrier gas.
- 19. The method of Claim 11, wherein the annealing is performed in a single wafer Rapid Thermal Annealing tool with a gas mixture of 1% to 100% of  $N_2O$ , with carrier gases argon, nitrogen and oxygen.

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- 20. (Cancelled)
- 21. (Cancelled)
- 22. (Cancelled)
- 23. (Cancelled)
- 24. (Cancelled)
- 25. (Cancelled)

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